

LOL-HECO-IR-27

Ref: "Although there are no plans to retire the HPP, the two units have been in service for over 45 years. ... a future upgrade to the facility may be difficult to permit." (Exhibit 5, page 26)

Question(s):

- a. What upgrades have been done (1995-2004) to HPP?
- b. What upgrades are currently being done to HPP?
- c. What future upgrades will probably be done (2004-2020) to HPP?

HECO Response:

- a. The following major capital improvement projects have been completed for Honolulu 8 and Honolulu 9 over the last 10 years:

- Honolulu 8 opacity monitor replacement
- Honolulu 8 coriolis fuel oil flowmeter
- Honolulu 8 steam atomizer conversion
- Honolulu 8 boiler controls
- Honolulu 8 stack renovation
- Honolulu 8 hydrogen purity meter replacement
- Honolulu 8 boiler safety valve replacement
- Honolulu 8 cycle chemistry instrumentation
- Honolulu 8 turbine steam gland conversion
- Honolulu 8 traveling screen no. 81 replacement
- Honolulu 8 high pressure/low pressure turbine blading
- Honolulu 8 generator rotor rewind
- Honolulu 9 stack lining replacement

- Honolulu 9 turbine supervisory instrumentation
 - Honolulu 9 primary fuel oil pumps
 - Honolulu 9 boiler safety valve replacement
 - Honolulu 9 coriolis fuel oil flowmeter
 - Honolulu 9 hydrogen purity meter replacement
 - Honolulu 9 high pressure/low pressure turbine blading
 - Honolulu 9 stack renovation
 - Honolulu 9 traveling screen no. 91 replacement
 - Honolulu 9 opacity monitor replacement
 - Honolulu 8 and Honolulu 9 instrument air compressor replacement
 - Honolulu 8 and Honolulu 9 sootblower air compressor replacement
- b. No major upgrades are currently being performed on either Honolulu 8 or Honolulu 9.
- c. Future upgrades which are planned for Honolulu 8 or Honolulu 9 include:
- Honolulu 8 annunciator replacement
 - Honolulu 8 turbine supervisory instrumentation replacement
 - Honolulu 8 sootblower controls
 - Honolulu 8 operator console replacement
 - Honolulu 8 voltage regulator/exciter replacement
 - Honolulu 8 feedwater heater no. 82 replacement
 - Honolulu 8 feedwater heater no. 85 replacement
 - Honolulu 8 main transformer replacement
 - Honolulu 8 secondary superheater element replacement

- Honolulu 9 attemperator block valve replacement
- Honolulu 9 generator rotor rewind
- Honolulu 9 cycle chemistry instrumentation
- Honolulu 9 fuel oil viscosity control
- Honolulu 9 voltage regulator/exciter replacement
- Honolulu 9 secondary superheater element replacement
- Honolulu 9 steam atomizer conversion
- Honolulu 9 boiler controls
- Honolulu 8 and Honolulu 9 demineralizer replacement
- Honolulu 8 and Honolulu 9 boiler building re-roof
- Honolulu 8 and Honolulu 9 emergency generator replacement
- Honolulu 8 and Honolulu 9 turbine building re-roof